**Lesson Title: Cell Tissue Lab**

**Unit: 5**

TEKS: 130.7(C) 11 (a) 130.7(C) 1 (a) (b)

OBJECTIVES

The student will be able to:

1. Spool DNA using wheat germ
2. Observe different cell parts from human check cells
3. Observe different cell parts from a red onion
4. Observe the structure of a stomach cell

TEACHING MATERIALS, TOOLS, AND EQUIPMENT

PPT: Tissues

TEACHING PROCEDURE

|  |  |
| --- | --- |
| Interest Approach/Anticipatory Set | Teacher Notes |
| Use this area as an introduction of what will be done to get the students ready to learn.  Consider some of the following:  1. Link – Have a short Q&A about the previous day’s lesson  2. Motivation – Explain in detail the laboratory activity  TRANSITION – Have students share their KWL | Ask questions to students |

|  |  |
| --- | --- |
| Teaching Plan and Strategy / Presentation of New Material | Teacher Notes |
| This lab activity is done in stations. There will be four stations requiring the students to perform different activities.  Objective 1: Spool DNA using wheat germ   * This activity is simply a review from a previous lesson during molecular biology. The students will be extracting DNA from wheat germ.   Objective 2: Observe different cell parts from human check cells   * Students will be scraping the inside of their cheek with a tooth pick and placing the skill cells on a slide to observe under a microscope.   Objective 3: Observe different cell parts from a red onion   * Students will observe the difference of a red onion cell exposed to a sugar water solution and a salt water solution   Objective 4: Observe the structure of a stomach cell   * Students will read the prompt and then locate the different structures within a stomach cell | Students will be taking notes at each station |

ENGAGEMENT

Students will be rotating from station to station. Each station should last for 10 minutes. The last ten minutes of class students should organize their notes and turn them in.

EVALUATION

Teacher will read through notes to make sure students comprehend the material.

ADDITIONAL MATERIALS

See laboratory activity

College & Career Readiness Standards: II.C.1; II.E.7 (Write in the number/letters already crosswalked for your unit)

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